

IMPROVEMENTS IN AN ENDOVASCULAR ELECTROLYTICALLY
DETACHABLE WIRE AND TIP FOR THE FORMATION OF THROMBUS IN
ARTERIES, VEINS, ANEURYSMS, VASCULAR MALFORMATIONS AND
ARTERIOVENOUS FISTULAS

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Abstract of the Disclosure

An artery, vein, aneurysm, vascular malformation or arterial fistula is occluded through endovascular occlusion by the endovascular insertion of a platinum wire and/or tip into the vascular cavity. The vascular cavity is packed with the tip to obstruct blood flow or access of blood in the cavity such that the blood clots in the cavity and an occlusion is formed. The tip may be elongate and flexible so that it packs the cavity by being folded upon itself a multiple number of times, or may pack the cavity by virtue of a filamentary or fuzzy structure of the tip. The tip is then separated from the wire mechanically or by electrolytic separation of the tip from the wire. The wire and the microcatheter are thereafter removed leaving the tip embedded in the thrombus formed within the vascular cavity. Movement of wire in the microcatheter is more easily tracked by providing a radioopaque proximal marker on the microcatheter and a corresponding indicator marker on the wire. Electrothrombosis is facilitated by placing the ground electrode on the distal end of the microcatheter and flowing current between the microcatheter electrode and the tip.